## **CLAIMS**

- a fluorine-containing multi-segment polymer having an elastomeric fluorine-containing polymer chain segment A and a non-elastomeric fluorine-containing polymer chain segment B in which the elastomeric fluorine-containing polymer chain segment A comprises not less than 90 % by mole of a perhaloolefin unit and (b) a fluorine-containing resin having a crystalline melting point or glass transition temperature of not less than 150°C, in which a weight ratio (a)/(b) is 1/99 to 99/1.
- 2. The flexible fluorine-containing material of Claim 1, wherein said fluorine-containing resin (b) has a crystalline melting point or glass transition temperature of not less than 250°C.
- 3. The flexible fluorine-containing material of Claim 1 or 2, wherein said weight ratio (a)/(b) is 20/80 to 99/1.
- 4. The flexible fluorine-containing material of any of Claims 1 to 3, wherein the elastomeric fluorine-containing polymer chain segment A contained in the fluorine-containing multi-segment polymer (a) is non-crystalline and has a glass transition temperature of not more than 25°C.
  - 5. The flexible fluorine-containing material of any of Claims 1 to 4, wherein the non-elastomeric fluorine-containing polymer chain segment B contained in the fluorine-containing multi-segment polymer

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- (a) is a polymer chain having a crystalline melting point or glass transition temperature of not less than 150°C.
- 6. The flexible fluorine-containing material of Claim 5, wherein the non-elastomeric fluorine-containing polymer chain segment B contained in the fluorine-containing multi-segment polymer (a) is a polymer chain having a crystalline melting point or glass transition temperature of not less than 250°C.
  - 7. The flexible fluorine-containing material of any of Claims 1 to 6, wherein the elastomeric fluorine-containing polymer chain segment A contained in the fluorine-containing multi-segment polymer (a) is a polymer chain comprising 50 to 85 % by mole of tetrafluoroethylene and 15 to 50 % by mole of perfluoro(alkyl vinyl ether) and/or hexafluoropropylene.
  - 8. The flexible fluorine-containing material of any of Claims 1 to 7, wherein the non-elastomeric fluorine-containing polymer chain segment B contained in the fluorine-containing multi-segment polymer (a) is a polymer chain comprising more than 85 % by mole and not more than 100 % by mole of tetrafluoroethylene and 0 % by mole or less than 15 % by mole of a compound of the formula (1):

$$CF_2 = CF - R_f^{\ 1} \tag{1}$$

wherein  $R_f^{-1}$  is  $CF_3$  or  $OR_f^{-2}$ , in which  $R_f^{-2}$  is a perfluoroalkyl group having 1 to 5 carbon atoms.

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9. The flexible fluorine-containing material of any of Claims 1 to 8, wherein the fluorine-containing resin (b) is one or more members selected from perfluoro fluorine-containing resins.

10. The flexible fluorine-containing material of Claim 9, wherein the fluorine-containing resin (b) is one or more members selected from polytetrafluoroethylene, tetrafluoroethylene/perfluoro(alkyl vinyl ether) copolymer, tetrafluoroethylene/hexafluoropropylene copolymer and tetrafluoroethylene/hexafluoropropylene/perfluoro(alkyl vinyl ether) copolymer.

11. The flexible fluorine-containing material of any of Claims 1 to 10, wherein a proportion of the non-elastomeric fluorine-containing polymer chain segment B contained in the fluorine-containing multi-segment polymer (a) is not more than 25 % by weight based on the whole segment polymer (a).

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